

DEPARTMENT OF TRANSPORTATION**DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-002508**Date Inspected:** 12-Jul-2010**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**Quality Control Contact:** Mr. Don Walton**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coating Inspection**Bridge No:** 34-0006**Component:** See Below**Bid Item:** 77, 78, 79**Lot No:** B #204**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE II coating inspector, Mr. Baskar Govindarajan arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE II coating inspector observed the following:

1. An inspection was requested on the OBG (L8E) External surface except the bottom plate and the Cross beam bottom plates for DFT check and final acceptance, vide request no. 3666 at No. 4 Blasting workshop. Caltrans Engineer Mr. Aaron Prichlik have been informed and after inspecting the surface He rejected the same for Low DFT in Nearby Traveller rail areas, Grit contamination and Gloss loss in some areas. This Caltrans inspector Baskar Govindarajan observed ABF inspectors Mr. Shi stone and Mr Sun assisting this inspection by carrying out DFT readings in external surfaces. International protective coatings technical service representative was not found present during the course of this inspection process. The ambient condition outside the Paint shop measured and found to be 0.8 deg. above due point, Relative humidity found to be 89.2%, which is not acceptable for painting as per contract documents. Photograph showing this measurement is attached with this report.

2. An inspection was requested on the OBG (L8W) External surface except the Cross beam bottom plates for DFT check and final acceptance, vide request no. 3667 at OBG assembly yard. Caltrans Engineer Mr. Aaron Prichlik have been informed and after inspecting the surface He rejected the same for Grit contamination and Gloss loss in some areas. This Caltrans inspector Baskar Govindarajan observed ABF inspectors Mr. Shi stone and Mr Sun assisting this inspection by carrying out DFT readings in external surfaces. International protective coatings technical service representative Mr. Lou Qian Chuan was found present during the course of this inspection

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process.

3. This Caltrans Quality assurance (QA) inspector Mr. Baskar Govindarajan Observed on Lift 8 West at OBG assembly yard, Suspender Bracket No. SB 66 erected with Interzinc 22 finish. As per discussion with ABF Inspector Mr. Shi Stone, this is in Primer stage for the last 15 days. As per Surface preparation and painting procedure PQWP-P-001, Rev. 4, Section 8.4.6, The maximum time permitted for Mist coat after Primer is 14 days. Upon discussing this issue with International paint representative Mr. Lou Qian Chuan, He suggested to apply sand paper feathering on the surfaces and conduct Residual chlorides test. If the test results are within the acceptable limit specified in the Contract, ZPMC can go for Mist coat. Informed the same to Mr. Aaron Prichlik and ABF Inspectors verbally. Photograph showing the suspender Bracket in Interzinc 22 is attached.

4. An inspection was requested for the OBG internal entire Floor (10AW), vide inspection request no. 3660 for Surface preparation inspection. This Caltrans inspector observed, ABF inspector Mr. Wei, Mr. Turtle and Mr. David performing the Blasting inspection. The profile measured by ZPMC QC Inspectors found to be in the range of 80 to 86 microns. Residual chlorides test conducted at 2 places and the result found to be 20 us/cm. The profile range and salt test result found to be acceptable as per contract specifications. Minor Blasting mistakes pointed out by ABF Inspectors which was found attended by ZPMC Personnels. This was again offered for Blasting inspection vide notification no. 3670. International protective coating representative was not found present during the inspection process.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.



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Summary of Conversations:

No relevant conversation

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Michel Ng(15921845703), who represents the Office of Structural Materials for your project.

Inspected By:	Baskar, Govindarajan	Quality Assurance Inspector
Reviewed By:	Clifford, William	QA Reviewer
